

SEQUENCE LISTING

<110>

Lok, Si
 Sheppard, Paul O.
 Kindsvogel, Wayne
 Bort, Susan J.

<120 Secretory Protein-48

<130> 98-17C1

<150> 60/102,679

<151> 1998-10-01

<150> 09/410,603

<151> 1999-10-01

<160> 17

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1692

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (59)...(373)

<400> 1

tttttctaag ggaatgagata agaataaata gaaatttttg cattttttct cacattag	58
atg ctg ggt tat tct gag ccc atg cca tgt gca cac cca ctt ggc ctc	106
Met Leu Gly Tyr Ser Glu Pro Met Pro Cys Ala His Pro Leu Gly Leu	
1 5 10 15	
ttc ctc tta ggc cta cac cct gcc ctt tct ttg ccc ctt gta gtt act	154
Phe Leu Leu Gly Leu His Pro Ala Leu Ser Leu Pro Leu Val Val Thr	
20 25 30	
gtg gct gga gtg atg agc gcc act ccc aag cat ggc ctg gaa caa tgt	202
Val Ala Gly Val Met Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys	
35 40 45	
cct cct gcc cct cca cca gca gtg aca gga ttc act ggg gac tcg ggg	250
Pro Pro Ala Pro Pro Pro Ala Val Thr Gly Phe Thr Gly Asp Ser Gly	
50 55 60	
gca aag gag act gtg tca caa gac aaa agg agc cag ggt cac aca tgg	298
Ala Lys Glu Thr Val Ser Gln Asp Lys Arg Ser Gln Gly His Thr Trp	
65 70 75 80	
tgt acc ctc gcc ctg cct cac cca tgg ctg aca tgg gtt gga cac ctc	346
Cys Thr Leu Ala Leu Pro His Pro Trp Leu Thr Trp Val Gly His Leu	
85 90 95	
aga aat cat gtg tct tca gcg agc cac tgagagttgg ggctttatct	393
Arg Asn His Val Ser Ser Ala Ser His	
100 105	

T06T60" 091901

gttactcggc taggggtaac ctaaccgatg agactgtaac tgggttactgt aaataaccaa 453
 gctcccagta atagtaaacc agtgacaaaa acaattctta tccaaaaagg ttcacctttt 513
 tttaaaatgt gtgaactaaa acagtcttta ttgctctaag acattaaaaat ttgcactttt 573
 ttgatgttga ataccactga atattttatt tttatatattt attacacaga aatacagcaa 633
 ttattacaaa acgagtatta ggaatggcaa aggctttagg acagactatt agcggaaaac 693
 atttggaact taaggagtgt tttacatttg gaacttactt taaggagtgt cgttcagaca 753
 ctactatata cttaacctca gtttttagaa gtaagcaagc tctcattttt tgctattcat 813
 atttgaagtg attaaactca taaatttgaa atttactttt tagagaccaa agattaaaaat 873
 taggtgggat gtcagctttt aaaatatact aagatttcct acaactacca atagcttatt 933
 tccctgggaa acagattaca ttgtagtact taaccacagaa ctcatgcagt tcatccaaaa 993
 tgatggtaaa cttttttcct cagaattacc taactttcct tgactatgaa ttcaacattc 1053
 aagaatcttc ttctggtagc aggagcggca gagaggacag gcatggaaaag gaggcctgtc 1113
 tcccacggag aactcctcta gtgccagcag acacgcagtg tggaacacat gtgagcagga 1173
 caggagggcc atctctctgg aacgcctgcc cgcaccacg cactgaccgc cagcagcgga 1233
 gagaggggcc aggcagatgg agcactcctg ggtctcccgg cgcagagcct gcggcacaca 1293
 ggacaggaag aggccacgcg ggtagttttc atcacagcag aaagtactt aaactgaaat 1353
 gcgaaccatg tgccccgaga catgggtcct cgaaacatgc ggaagtttca ttctgtgtta 1413
 aaatcacatg cattttattt atatatatac atatatatat atacacacac acatatactc 1473
 tgttactcct ggaactgtg gaaagggtta gtaaccaccc tgtgataagc aacatccaac 1533
 aggaacttcc agaatttcaa actgaaggga cctttgccgt caccctaaag cccatgagga 1593
 aagtctacc acaggtgcag gggcagctag ggcagcgggt accccaggcc tgacactcct 1653
 aggcttccca aagtgagtc tgcacctccc ccgctcgag 1692

<210> 2
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 2
 Met Leu Gly Tyr Ser Glu Pro Met Pro Cys Ala His Pro Leu Gly Leu
 1 5 10 15
 Phe Leu Leu Gly Leu His Pro Ala Leu Ser Leu Pro Leu Val Val Thr
 20 25 30
 Val Ala Gly Val Met Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys
 35 40 45
 Pro Pro Ala Pro Pro Pro Ala Val Thr Gly Phe Thr Gly Asp Ser Gly
 50 55 60
 Ala Lys Glu Thr Val Ser Gln Asp Lys Arg Ser Gln Gly His Thr Trp
 65 70 75 80
 Cys Thr Leu Ala Leu Pro His Pro Trp Leu Thr Trp Val Gly His Leu
 85 90 95
 Arg Asn His Val Ser Ser Ala Ser His
 100 105

<210> 3
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 3
 Leu Pro Leu Val Val Thr Val Ala Gly Val Met Ser Ala Thr Pro Lys
 1 5 10 15
 His Gly Leu Glu Gln Cys Pro Pro Ala Pro Pro Pro Ala Val Thr Gly
 20 25 30
 Phe Thr Gly Asp Ser Gly Ala Lys Glu Thr Val Ser Gln Asp Lys Arg
 35 40 45
 Ser Gln Gly His Thr Trp Cys Thr Leu Ala Leu Pro His Pro Trp Leu
 50 55 60
 Thr Trp Val Gly His Leu Arg Asn His Val Ser Ser Ala Ser His
 65 70 75

<210> 4

<211> 77
 <212> PRT
 <213> Homo sapiens

<400> 4
 Leu Val Val Thr Val Ala Gly Val Met Ser Ala Thr Pro Lys His Gly
 1 5 10 15
 Leu Glu Gln Cys Pro Pro Ala Pro Pro Ala Val Thr Gly Phe Thr
 20 25 30
 Gly Asp Ser Gly Ala Lys Glu Thr Val Ser Gln Asp Lys Arg Ser Gln
 35 40 45
 Gly His Thr Trp Cys Thr Leu Ala Leu Pro His Pro Trp Leu Thr Trp
 50 55 60
 Val Gly His Leu Arg Asn His Val Ser Ser Ala Ser His
 65 70 75

<210> 5
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 5
 Pro Lys His Gly Leu Glu Gln Cys Pro Pro Ala Pro Pro Pro Ala Val
 1 5 10 15
 Thr Gly Phe Thr Gly Asp Ser Gly Ala Lys Glu Thr Val Ser Gln Asp
 20 25 30
 Lys Arg Ser Gln Gly His Thr Trp Cys Thr Leu Ala Leu Pro His Pro
 35 40 45
 Trp Leu Thr Trp Val Gly His Leu Arg Asn His Val Ser Ser Ala Ser
 50 55 60
 His
 65

<210> 6
 <211> 384
 <212> DNA
 <213> Homo sapiens

<220>
 <221> variation
 <222> (1)...(384)
 <223> n is any nucleotide

<221> misc_feature
 <222> (1)...(384)
 <223> n = A,T,C or G

<400> 6
 tttttctaag ggatgagata agaataaata gaaatttttg cattttcttct cacattagat 60
 gctgggttat tctgagccca tgccatgtgc acaccactt ggctcttcc tcttaggcct 120
 acacctgcc ctttctttgc ccctttagt tactgtggct ggagtgatga gcgccactcc 180
 caagcatggc ctggaacaat gtctctctgc cctccacca gcagtacag gattcactgg 240
 ggactcgggg gcaaaggaga ctgtgtcaca agacaaaagg agccagggtc acacatgggtg 300
 ttacctgcc ctgcctcacc catgggtgac atgggttga cacctcanaa atcntgtttc 360
 ttcaccganc cactgaaaat tggg 384

<210> 7
 <211> 48
 <212> DNA
 <213> Homo sapiens

<400> 7

0055807 091901

gtctgggttc gctactcgag gggccgcta tttttttttt tttttttt

48

<210> 8
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 8
 Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys Pro Pro Ala Pro Pro
 1 5 10 15
 Pro Ala Val Thr
 20

<210> 9
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 9
 Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys Pro Pro Ala Pro Pro
 1 5 10 15
 Pro Ala Val Thr Gly Phe Thr Gly Asp Ser Gly Ala Lys Glu Thr Val
 20 25 30
 Ser Gln Asp Lys Arg Ser Gln Gly His Thr
 35 40

<210> 10
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 10
 Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys Pro Pro Ala Pro Pro
 1 5 10 15
 Pro Ala Val Thr Gly Phe Thr Gly Asp Ser Gly Ala Lys Glu Thr Val
 20 25 30
 Ser Gln Asp Lys Arg Ser Gln Gly His Thr Trp Cys Thr Leu Ala Leu
 35 40 45
 Pro His Pro Trp Leu Thr Trp Val Gly His Leu Arg Asn His Val Ser
 50 55 60
 Ser
 65

<210> 11
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 11
 Thr Gly Asp Ser Gly Ala Lys Glu Thr Val Ser Gln Asp Lys Arg Ser
 1 5 10 15
 Gln Gly His Thr
 20

<210> 12
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 12
 Thr Gly Asp Ser Gly Ala Lys Glu Thr Val Ser Gln Asp Lys Arg Ser
 1 5 10 15

00955807 091901

Gln Gly His Thr Trp Cys Thr Leu Ala Leu Pro His Pro Trp Leu Thr
 20 25 30
 Trp Val Gly His Leu Arg Asn His Val Ser Ser
 35 40

<210> 13
 <211> 12001
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> CDS
 <222> (10258)...(10572)

<400> 13
 accttgtgca aaattccttc attaagcctt agcttcctta tctgtaatac agtgatagta 60
 tcatcttcct gttagggttt ttgtgaagat caacggaaat aattctgtaa gatccttagc 120
 atagcgcttg gcacatccta agaactcagt aaatatttagc ccctttatta tgacgatggt 180
 ggtcatgggtg gtggtagga tgatacgggt tgaaaagcctt atctcttggt aataatacct 240
 tttagttaaa gcttttttga ggcttggatt ttgcaagtat taggctaacc cataagtctc 300
 ttcattaagc cagagaataa attcaagatg aaaacgtag cattcttggc attgatgtaa 360
 tagaagagag gggatttact gttatgtgtt ccaagagtca catgtattgt aatgggtgtta 420
 aaaacgggta ggtttagcta aagggtacaa acgtaaccta tgaatgtatt tttatgctta 480
 tttccacatt agtgctaaac atatttcaag ttttatactt taaaaatacc aggacaaagt 540
 aaattatctt ggtttgggtt gggagggggt tgtaatttta tgacagaaga agggaaaggc 600
 agtgacttct tgtagaaaat ttttaaaaat cctgacatta gctcatttac ctgagttgac 660
 atgatttgaa tgcataatgac tccatactgg ggcttttagc tattgtaaaa ggccacatac 720
 tgatggattc attaagggtc agttttcaga taacttaaac gatatgagca gcaataaagc 780
 ttctcagatc accaggcctt tccaaccttg atgtttgaga gggtagacct tgggaggcac 840
 aaaagatttc agatgagctg tccatatgta ttttactttg aatatgccct gggaggggat 900
 ggctcatcaa atattgcaat gcctgacagg aaaaagtcac agctcatttc agctgacaca 960
 ccagataact tatacctttt aatgcttagg ttttaataaag ctggcccaac ttgaagtagg 1020
 aatcaaacag tcccttttat cagatgtcta gcattaaaac ttaattttta agcctgttat 1080
 aatatcagca agattagtta gccattggtt cagataaatt tccactttcc attcgctaaa 1140
 tgagatgggt gcaaatgaac tgccgtaact tttagctttt aattaggtag tctggacatc 1200
 attttgctaa gaaagccttt attaaagtaa taaaacataa cctgatataa aaggccttat 1260
 atgcatgtca gttccttgac cataagagag agtagaatta gcaagagttg tataaaacta 1320
 cctaatagat acatttactt ttcttcccca gtgtttttca gtattctttg ggggtgtgcta 1380
 cggggcaatt tatacataga aaaagagtct tattaagtat atgtaatgtt tgaatgatct 1440
 gagatcttaa cagggttta gctgagactt gtaatttgat tgtaaagtag ctatccctt 1500
 tctttctttt tttttgtaga gattttttcc cctctgtac tctgccatt gataataata 1560
 gtatccatct cagagaatat ctagcacata gtaaacacta gaaatttagc tgtgggtgatg 1620
 gtggtaatgg acgggattgt ttctggagtt gtctgcagaa gagacacatc agaacgtttc 1680
 agaatgcata acctacatga cagccaagtt ttaggcgtga actcagataa tcatcctaa 1740
 aaggggtgct tcatttcagc tcagtcagtg ggtaccgcag tgatcctctg tcttcaactc 1800
 gtcccttttc taacaagctt gatttttagc cacttcccca actccagcag ctgtgggttc 1860
 ctattgtcat tcttgggacc tgaccatttt ttgtgttgga ttgattttct ttttcccttc 1920
 ccattcaaac ataggctcag ttttaccttt tctttcatta agatatgcag gtgacaggaa 1980
 gattaaaatt tggagtgtca tattagttta tgagtgtatg aaaactgcct aataggctcag 2040
 ttaccatgtg aaatttttag gagaaaaatc ttttccaagt aagttgttga gatgccagaa 2100
 aggtctgagc ttcgtgaaaa gtattttctc aacatctgcc ctgtggaagt gctgtgtgt 2160
 ggccataggc cacatgatga tcatttgggtc aataacagac cacttgccca tgtgacagt 2220
 gccacagcag atgatcatgg agctgaaccg tttctgccag cagtggcgtg gcggctgttg 2280
 taatgtcctg gcgccacgca tcagcttttc taggttcata tgtttctaga tgcacagata 2340
 tgtgccatgg tgccgcagtg gctgcagcac tcaggacagt gacatgctgt ctgcttggt 2400
 actgaggagc agccggccac accctgcagc ctaggatgg catggctgtg cctctgggt 2460
 gtatagatac actctatgat ggcacacag cgacagaatc gctcgacagc gcattttctca 2520
 gaatgcattc ctgttgttcg gcaacacctg actgtgttgc tgtatgtcat tgtgtttcat 2580
 ttttattaaa gtgcttgacg ctccagtgcc acagaagctc ttacattttc ttctgccctt 2640
 tctccctgtg agagggcaat gttgggtctg gtatcaggta tattatgtaa ataattgttt 2700
 tatgatacag agagaaataa atgtaacttt aaaagatagt gatagttttt tattctgtga 2760
 aataaccttg ggtagtgtga tattatttat gttcagttta ttcttttgtc atttctttat 2820

09955607 "09955607"

tttttagtaa	tgttttccat	tcttttcttt	ttaattacat	attaatat	ggctgtggct	2880
ttccctacat	tttcttgcac	gtgtgtaagg	ggcaatttat	tttactttat	ttaaaatttt	2940
tttgagacag	ggtctcctct	gtcaccagag	ctggagtgc	gtgggtgat	cacatctcac	3000
tgcagtcaca	acctgctgag	ctcaaggaat	tctcccacct	cagcctccca	gagtgtggg	3060
attataggca	tgagccactg	cagccagcta	atTTTTgtgt	ttttcatgaa	catgggggtt	3120
cacaatggtg	cccaggcctg	tctcaaacc	ctcagctcaa	acgatccttc	cacctcgcc	3180
tcctgaagtg	ctgggatgac	aggcgtgagc	caccacgccc	agcctgtgtg	tgtgcatttt	3240
aaaatgcaag	tggaacgta	tctgtctcgg	gttaggttcc	ctgagaagca	cacttcagat	3300
gggaatctgc	ttgccaggaa	gaggtttatt	agccgggttg	ggacaacgga	agaggaagg	3360
gctgtgcaga	gggaggaact	gtgccgtgat	gcagtcacac	tggaaagcctc	cgctggccct	3420
cggggatgtt	gtgacttcga	tgcccttca	gagctccact	gaactgagaa	gaagggacag	3480
gctcttagga	ccctcacgtg	ctgtcctgga	aggggcagga	cttccgcctt	gcagcagctc	3540
tcagcttagg	ccatcccca	agggaggttg	ccagtaggga	gaagaaatca	ttcattcctc	3600
aaggggatct	ggccagcacc	tcacagcttt	ccaaataaca	cttagctttg	taaactcctc	3660
cttctcccta	ccctaaccct	ttcccagcca	ctcagcaata	tatcatttct	caccattttc	3720
ttaatTTTT	tgcagggett	cataaaacttc	acttaccaaa	tacttcaagg	gattcagaaa	3780
cagccaagcc	ttctgtaaat	gggcatcaga	aagcactgtg	agacgcacag	acggcgtctt	3840
ctgccacca	gagacccgag	aactccagat	tcacgacatt	cctgtcccat	gtagaagcat	3900
ttccattcaa	ccgtggcccc	tcttcagaac	ctagacctat	cagtgccatt	tttttttcat	3960
aatctacgaa	gaacttggct	atggctgatc	tttttttaaat	ttacttttct	gatggaccct	4020
gtagtttcca	gttaagtgc	gattccttac	agacatatag	aacagcgcac	tcttctgtag	4080
acatttgctc	atgttggtaa	atacaatcac	ccatatgaaa	aaattgtttt	cacctgatat	4140
gaaaatgtta	gaaaaggcaa	actccgggac	ttctaagat	ttacttaaat	ccatttatgt	4200
actttattca	gaatgtagaa	gctgacttga	aaggcatcct	tggtaactaag	tgaagcttat	4260
tcagaaaatg	cattttttcaa	atgcaatggc	aactgcttgt	agatatcatt	tttgcagtgt	4320
atgttggagc	tgtaatgggt	gcaattatgt	ttcttatttc	cttaaaagca	aaaagcgtag	4380
tttctgattt	atgttataga	atgatactga	ttagactttg	agccaagggg	aaaatactaa	4440
attcttttaa	acctggagcc	ttagagagcc	acaggaatat	cctctgttgt	acagtcta	4500
aagctgtggg	aggaagtatc	atgtaatcac	agtttaatga	cagtttatgt	atatatataa	4560
ttcagtatcc	cctctgataa	catagtgtgc	agtgtttaat	acacttgtaa	cttggatttt	4620
taccttatag	gctatatgta	tactcagttt	tttaaagcat	ttttttcaga	gatcacctaa	4680
ttcccatg	ttctgcaatg	catataaaaa	ctataaatgc	cgagtggtag	aaactcctct	4740
ttcttcatag	tcctcaggct	ttgggtacat	ttgcatatgc	catttgaagc	ctccagcttt	4800
taccagttta	acatccaaag	ttcacagcat	cagcattcat	ggtgtaagaa	cagttttgca	4860
gtataacacg	atctgataat	cattcagtta	ttaaattgta	aataattatt	gggatggttt	4920
cttggcttta	agtcacatga	ataaaaacta	tgaattgca	ctctgtgtca	accatccact	4980
aggatagaat	accgaaatct	gtgcatgcaa	aaataggaga	tgggcccatt	tgcacacaat	5040
tcgtagtatt	gcagtctgct	atataaatat	gttcacatgc	actgtgtgta	tgaaaataga	5100
tggctctgtg	tcagacaaaa	gtaaaacatt	tttttcaaat	tgttacattt	aaagggtttt	5160
tgggagaaat	ttatgaaacg	caggctgtgt	ctatttgaca	tcagaaaattt	ccacttttaa	5220
ccaaaataat	aagaaacttt	aatctgtata	tttacaacct	ttgttgagta	cacttcccc	5280
ttattttatac	gtctgcattt	ccttccgagc	ttcacatctt	tctaaaatgc	agcttgggtt	5340
taaaataaaa	gaacattcat	tttgtgattc	taaacaagct	tcagtaaaata	ccaccagtat	5400
agtactgggtg	aatttctcag	cataaaatcg	acatacctaa	aaagttaata	aaattcagct	5460
cttttccaat	ttcattgtta	tgccatttga	agtatttaatt	gccaggtttg	atttttagtg	5520
aagcttggag	tcacatactt	gagcagacca	agtgaaggga	agaacagaaa	gaaactcagg	5580
agtagagtaa	tatcacttct	cacttacacc	actttcaggc	acatccaaag	agttcctaga	5640
tacttggaaa	atgtctgaaa	attttttaagt	aaaatactaa	acttttcagt	gttttagctca	5700
actttttgtt	catttgggaag	tttctctcca	tccgaggact	taagccagtt	ttggattttg	5760
aagccctgag	tacaatacac	ttcctggagg	catcctcact	gctgttgaag	caaaggatat	5820
gcatgggggtg	gaaggacggc	ttcgaaacctg	ggactcatat	gccttgagaa	caaatagatt	5880
gttacagcct	tgggctgctg	cgtaatcacg	gttctctgag	gctcttctg	agcacatgcc	5940
caagcatctg	cctctggaga	gactgactcc	aatgcaggt	gcttccattg	gagctaggtc	6000
ggaggctgct	ttatatgacg	aactccagaa	atggatgcca	gaatacggag	gccaaacgtt	6060
ctgagtcctg	gtaaggacag	tcgctctggg	ggctcctcatt	ttactgcagt	tcctgcacgc	6120
cagtggaaaga	gaggagatag	accctggaag	gcagagctgc	agatgctcat	catcaggtca	6180
attctggagc	tacagttttg	tttctgactg	gatagggatg	caccagtgc	tgtcacatca	6240
agcagtcctt	ttattctctc	tcctttagta	tcgattttta	agggcatttag	gcactatggg	6300
tcacagagttt	cttggggaaa	acttgcagat	tcttattaat	tggttctgca	atacttaaat	6360
aaattatttt	acaattataa	gttttcagat	tataacattt	gtattaattt	ttactgattt	6420
tcacagatac	ttcttagatt	tactatttac	gtagctttat	gtacattctc	tgtaaaaata	6480
gacctctaaa	tatgaggctt	tacatgaaat	ttgtacacac	atacacacta	atgttagctc	6540

cttaaatg	gcactaag	tgctggtag	tagagatgga	cggagcctct	cgcgttttgc	6600
tctcagatgt	gttaaaggcg	cacgtgtacc	tgctctcagc	ggcagtgccg	cctccccatc	6660
tgctgggtgc	ccatggccct	ccctgcagcc	tcagtgatga	cctcgtctgc	cagggacaca	6720
ggttttcctc	atttacaggc	tcttatgtgc	tagttttgtt	ggtagcacgt	tatttaaatgc	6780
ataaaggcag	aattctttaca	agtttttttt	tttaatgtga	acatagatgc	agcaccgact	6840
ttttaaactt	gaaaaaactg	gtataatgtt	aactttttaa	aataacattt	ggacacacta	6900
gtaattgatt	tttgtttaca	gattgttttg	tttacaaatt	gttagtcttt	gtttctatga	6960
gatactttta	gtgtgacttt	ttaaatgtct	tagaaattaa	aaagtgtaca	aaaagtgatt	7020
tcataatttg	tttataagca	tttatatgtg	gggtttattt	gttcttttgt	tttttccatc	7080
ttaaatatta	tcattggctaa	aacttaaggg	tatttatagt	tttaattccat	ttcagtttta	7140
tagagggcag	taattattct	gatgaatgtt	gaattaagaa	atggatatatt	tctttctctg	7200
ttgtgcagtt	attggtagat	caattttcta	taaccacaaa	tgtagcatca	ataattgata	7260
gcatgtattt	tatttaatta	cttgaattat	ttagacttga	tttctctaata	tttttccata	7320
aaaggactga	acagcaccta	cttgtggctc	ggacagctta	acccagagtt	cctggaagaa	7380
taaatgctgt	tagcatctgg	tttaatttact	ggcagacaga	agcctactta	cagtggcttt	7440
caactttttg	accacagtaa	gaaataaccc	attacacaca	cacacacaca	cacactctct	7500
ctctctctct	ctctctctct	ctgtctctca	gatacgtata	agcaaaaatt	taacaagaca	7560
gtacttgatt	ttcctaagtg	tgcatgctgg	catcttctgt	tttattattt	ttaaaaatac	7620
tagacacaga	cactaagtta	ctttgtggcc	tcctaataga	tggcagactt	cagtttgaaa	7680
agcatccctt	tggaatgtgg	ttttaaagaa	gaaataatac	aaagaccttt	ttggagtttt	7740
tttttttttt	ggtttttgaa	tattgttttag	gtaaaaatta	ttgctgcaaa	cacaactgaa	7800
gcaaaagtac	tgtgtacgca	aattacttgt	tgcaactgtg	aaaatgtaat	atcaggagaa	7860
gttcctaaaa	ctcacaaaata	tatacaaaat	ttcaaaactt	ggtgattgat	ccatatgtct	7920
tgaaggaata	ttaggcaata	aactttacctt	ttcaagagaa	gttattttaac	ttccaattct	7980
gtgttcttta	atttaggaaaa	aattttttca	aggttaacta	taatcaataa	ggaacttcac	8040
acaaaacctc	attattcttg	gatattggatt	tggtgttctg	ctgttacttc	ttaaagggtg	8100
acagaagtca	agtttatgag	cctggattat	gaacagcagg	gcggccctga	tgtgagtggt	8160
tgtggaggac	tagagtgatg	tagaagaatc	tggtgtgtct	gagtggtgag	aggtggagag	8220
tcacgtgtgg	gctatgggtc	tgagaactga	agtttttaaca	gttactaaaa	ctgttttgtg	8280
gctgttgtaa	tgtcttctcc	tttgcctttc	tttgaagaag	tgttactgaa	tgaacgatgc	8340
cgtttacaaa	cactgacact	tcagaaccaa	gcataattga	tactgctgta	gctattttata	8400
ttgattctgc	aacttctctt	taacagcatc	ttgaagtcac	ccacagttgt	tctatatgga	8460
ctccacagta	gagtcagaga	actaagtgc	aagtggagca	tcgtcctcct	cctgctcact	8520
tcctcctcgc	cacctctctg	gcctggctat	ccttcagctc	gaagagtgat	tcactttttc	8580
ttttcttttt	agtcttttact	gtggaatctc	atcaaaagact	tggaagcagg	ggtggtgaga	8640
ggggcctggg	gcgtggtgtg	gagggctogag	ttctttgtcg	tcccacagtc	accccaggga	8700
ccaccttgcg	aagccgaaaa	tacacatctg	cattttaccg	acaaggaacg	ccactgagaa	8760
agctgcagac	atttgcctgg	ggtcacgctt	acagtgggca	gatgaactgg	atgtaaatac	8820
aggccagtag	aaccgcagtc	tcattttttc	tttgttttag	gttttcagtt	tcttgttcat	8880
tcattgtacct	tcagtttcta	ttatctgggt	gataaaagatt	catgacaggt	atcctcattc	8940
tagattataa	cctttattct	tatcaaatgc	ctccagctcc	acaattcgct	aagaattctc	9000
tttctggact	tgatagtgat	ttaatgattc	ccccgcgcca	tggaatggta	ggctcctaata	9060
taagtggatt	taaaggcaaa	aagggatgtg	tgagaaggca	caagaagtgg	cttcactcttg	9120
caaggtgact	gtcagacaag	tgggttcocaa	cctgttataaa	taagggagga	atggccacat	9180
cccgtaggga	ctgctgtagc	tgaccaggaa	gacaccaatga	gggcagcaga	cagggctctc	9240
cctgtccgct	gagtcctccc	atgaactcat	gtttccaaaag	gccccactct	ttcttggtca	9300
gtgtcccagt	ttttatagaa	gagacctgat	gaggctgtgg	agtaattgta	taaaagcttg	9360
cactgttttc	ctgacttgac	ctgacaatgt	ggcgttatct	tcaaattgtc	cagagaagta	9420
gctacttcat	tcaggtcctt	tttagcgttc	tgtggttgca	acttggtctc	gcaagctttc	9480
gatgggcgcg	ccattccatg	gccacttttc	agtaagaaaa	ttgcctgatt	ttctgttaac	9540
tgtcacaggc	tgccctggac	cattcctcag	aactcattgg	atttttcgca	ccctcatcct	9600
cagtgaaagt	agatgacat	tctgccttt	catcccaacc	attttcctaa	gtatctgttg	9660
cctgcaacta	acactagttc	ctgtgtcagt	aaagtactgc	acttggttgc	aaagaataga	9720
gatggactct	gccaacatag	gcacggaagg	tttacggggg	ggatggcatg	gctcacagat	9780
gtgatgagaa	agccccggaa	gaagtgttgg	gcacagcctt	aggcacaacc	tttccctggg	9840
tcttccccatc	actgaatgat	ccatgtatct	ccgggactct	ccttctagat	ccaaagttaa	9900
ggggggcgga	atcggactgc	tctggccttt	gacacgtgcc	tgtgctttgc	ctgtcaacgc	9960
tatggggaga	gagatgtcag	cttacagaaa	attgaggttc	tgtgattcag	tttccctctg	10020
ctctcttaga	ataaaagtgc	ttactcattg	tttaaagcat	tctccaaaatt	agtctgcaaa	10080
ttttttgata	gtatacatcc	ttaaaaaatg	agcacatccc	aatatatgca	tattttattca	10140
taaatgatac	atacatatgt	agctatataa	tgtgtacatc	acaaaacata	ggagagtatt	10200
ttttctaagg	gatgagataa	gaataaatag	aaattttggc	atttcttctc	acattag atg	10260

Met
1

ctg ggt tat tct gag ccc atg cca tgt gca cac cca ctt ggc ctc ttc 10308
Leu Gly Tyr Ser Glu Pro Met Pro Cys Ala His Pro Leu Gly Leu Phe
5 10 15

ctc tta ggc cta cac cct gcc ctt tcc ttg ccc ctt gta gtt act gtg 10356
Leu Leu Gly Leu His Pro Ala Leu Ser Leu Pro Leu Val Val Thr Val
20 25 30

gct gga gtg atg agc gcc act ccc aag cat ggc ctg gaa caa tgt cct 10404
Ala Gly Val Met Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys Pro
35 40 45

cct gcc cct cca cca gca gtg aca gga ttc act ggg gac tcg ggg gca 10452
Pro Ala Pro Pro Pro Ala Val Thr Gly Phe Thr Gly Asp Ser Gly Ala
50 55 60 65

aag gag act gtg tca caa gac aaa agg agc cag ggt cac aca tgg tgt 10500
Lys Glu Thr Val Ser Gln Asp Lys Arg Ser Gln Gly His Thr Trp Cys
70 75 80

acc ctc gcc ctg cct cac cca tgg ctg aca tgg gtt gga cac ctc aga 10548
Thr Leu Ala Leu Pro His Pro Trp Leu Thr Trp Val Gly His Leu Arg
85 90 95

aat cat gtg tct tca gcg agc cac tgagagttgg ggcttttatct gttactcggc 10602
Asn His Val Ser Ser Ala Ser His
100 105

taggggtaac ctaaccgatg agactgtaac tggttactgt aaataaccaa gctcccagta 10662
atagtaaacc agtgacaaaa acaattctta tccaaaaagg ttcacttttt tttaaaatgt 10722
gtgaactaaa acagtcttta ttgctctaag acattaaaaat ttgcactttt ttgatgttga 10782
ataccactga atattttatt tttatatatt attacacaga aatacagcaa ttattacaaa 10842
acgagtatta ggaatggcaa aggcctttagg acagactatt agcggaaaaac atttggaact 10902
taaggagtgt tttaacatttg gaacttactt taaggagtgt cgttcagaca ctagctatat 10962
cttaacctca atttttagaa gtaagcaagc tctcattttt tgctattcat atttgaagtg 11022
attaaactca taaatttgaa atttactttt tagagaccaa agattaaaaat taggtgggat 11082
gtcagctttt aaaatatact aagattttcct acaactacca atagcttatt tccctgggaa 11142
acagattaca ttgtagtact taaccacagaa ctcactgcagt tcatccaaaa tgatggtaaa 11202
cttttttctt cagaattacc taactttcct tgactatgaa ttcaacattc aagaatcttc 11262
ttctggtagc aggagcggca gagaggacag gcatggaaag gaggcctgtc tcccacggag 11322
aactcctcta gtgccagcag acacgcacatg tggaacacat gtgagcagga caggagggcc 11382
atctctctgg aacgcctgcc tgcacccaag cgctgaccgc cagcagcggga gagagggggcc 11442
aggcagatgg agcactcgtg ggtctcccgg cgcagagcct gcggcacaca ggacgggaag 11502
aggccacgcg ggtagtttc atcacagcag aaagttactt aaactgaaat gcgaaccatg 11562
tgccccgaga catgggtctt cgaaacatgc ggaagtttca ttctgtgtta aaatcacatg 11622
cattttatatt atatatatac atatatatat acacacacat atactctgtt actcctggga 11682
actgtggaaa gggtttagtaa cccacctgtg ataagcaaca tccaacagga acttccagaa 11742
tttcaaactg aagggacctt tgccgtcacc ctaaagccca tgaggaaagt cctaccacag 11802
gtgcaggggc agctagggca gcggttacct cgggactgac actcctaggc ttcccaaagt 11862
gagtcctcga cctccccga catgccaccc ccacagcctc cacggctgca ccccgggcct 11922
gacactccta ggctcccaa agtgagtcct cgacctcccc ccacatgcca ctccccacag 11982
cctctgcagc tgcagctga 12001

<210> 14

<211> 105

<212> PRT

<213> Homo sapiens

<400> 14

Met Leu Gly Tyr Ser Glu Pro Met Pro Cys Ala His Pro Leu Gly Leu
 1 5 10 15
 Phe Leu Leu Gly Leu His Pro Ala Leu Ser Leu Pro Leu Val Val Thr
 20 25 30
 Val Ala Gly Val Met Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys
 35 40 45
 Pro Pro Ala Pro Pro Pro Ala Val Thr Gly Phe Thr Gly Asp Ser Gly
 50 55 60
 Ala Lys Glu Thr Val Ser Gln Asp Lys Arg Ser Gln Gly His Thr Trp
 65 70 75 80
 Cys Thr Leu Ala Leu Pro His Pro Trp Leu Thr Trp Val Gly His Leu
 85 90 95
 Arg Asn His Val Ser Ser Ala Ser His
 100 105

<210> 15
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 15
 Gly Glu Tyr Met Pro Met Glu Gly Ser Ser Leu Pro Leu Val Val Thr
 1 5 10 15
 Val Ala Gly Val Met Ser Ala Thr Pro Lys His Gly Leu Glu Gln Cys
 20 25 30
 Pro Pro Ala Pro Pro Pro Ala Val Thr Gly Phe Thr Gly Asp Ser Gly
 35 40 45
 Ala Lys Glu Thr Val Ser Gln Asp Lys Arg Ser Gln Gly His Thr Trp
 50 55 60
 Cys Thr Leu Ala Leu Pro His Pro Trp Leu Thr Trp Val Gly His Leu
 65 70 75 80
 Arg Asn His Val Ser Ser Ala Ser His
 85

<210> 16
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 16
 Ser Leu Pro Leu Val Val Thr Val Ala Gly Val Met Ser Ala Thr Pro
 1 5 10 15
 Lys His Gly Leu Glu Gln Cys Pro Pro Ala Pro Pro Pro Ala Val Thr
 20 25 30
 Gly Phe Thr Gly Asp Ser Gly Ala Lys Glu Thr Val Ser Gln Asp Lys
 35 40 45
 Arg Ser Gln Gly His Thr Trp Cys Thr Leu Ala Leu Pro His Pro Trp
 50 55 60
 Leu Thr Trp Val Gly His Leu Arg Asn His Val Ser Ser Ala Ser His
 65 70 75 80

<210> 17
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 17
 Gly Gly Ser Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

00955507.091904